

Invention Disclosure No. ED 1999-056Date Received (MMDDYY) 3-2-99Attorney NTKCommittee IP

Above information to be completed by the Patent Department



## Invention Disclosure

Please read and follow the attached instructions.

1. Title or subject of Invention:

THERMOPLASTIC SNAP-ON STYLE AIR SPRING  
UPPER RETAINER W/ INTEGRAL MOUNTING  
ATTACHMENT, QUICK-CONNECT AIR AND BUMPER  
PROVISIONS.

2. Purpose/detailed description of Invention:

PROVIDE A LIGHT WEIGHT, LOW COST MEANS OF  
EASILY ATTACHING THE AIR SUPPLY END OF AN  
AIR BAG DIRECTLY TO A SUSPENSION FRAME  
RAIL USING MATERIALS WHICH DO NOT CORRODE.

3. Commercial Utility:

THE MAJORITY OF TRUCK REAR AXLE AIR SUSPENSIONS  
IN PRODUCTION TODAY COULD UTILIZE THIS TECHNOLOGY  
AND BENEFIT FROM THE REDUCED COST (SAVINGS IN  
PURCHASE PRICE AND REDUCED INSTALLATION TIME) AND  
WEIGHT WITHOUT HAVING TO CONCERN THEMSELVES WITH  
CORROSION PROTECTION.

4. Differences from or advantages over prior art:

A SUB-ASSEMBLY MADE FROM COATED STEEL STAMPINGS AND PLUMBING COMPONENTS IS THE CURRENT APPROACH TO ACHIEVE MOUNTING ATTACHMENT, AIR CONNECTION AND BIRD CAPTIVATION. THE PROPOSED SINGLE FOLDED PART APPROACH DOESN'T ATTEMPT TO CAPTIVATE THE BIRD BUT RATHER RELIES

5. Important dates:

a) Conception:

Date 9/3/97

Ref. ATTACHED SKETCH

b) First Written description, sketch, or drawing:

Date 9/3/97

Ref. ATTACHED SKETCH (CAD FILE)

c) First use:

Date N/A

Ref. \_\_\_\_\_

6. Inventor(s):	Name	Userid	Phone	Dept
a)	<u>MARK TREMBLIER</u>	<u>T109862</u>	<u>330-896-5013</u>	<u>021</u>
b)	_____	_____	_____	_____
c)	_____	_____	_____	_____
d)	_____	_____	_____	_____
e)	_____	_____	_____	_____

7. Contribution of each Inventor:

a) CONCEPT & DESIGN

b)

c)

d)

e)

THE INTERFERENCE FIT BETWEEN THE MOLDED PART  
AND THE BEAD OF THE AIR BAG TO EFFECT A SEAL.  
A BARB IS PROVIDED TO PREVENT DISENGAGEMENT UNDER  
CERTAIN LOW PRESSURE OPERATIONS.

8. Department Manager:

Name: Robert Schisler

Userid/location T476 BEE / GREEN-B1

Phone 896-5026

Dept No. 021 (Green)

9. Immediate Supervisor, if applicable:

Name: \_\_\_\_\_

Userid/location \_\_\_\_\_

Phone \_\_\_\_\_

Dept No. \_\_\_\_\_

10. Attachments (yes ☒ no ☐ -- if yes, please list:

COPY OF PRINT FROM ORIGINAL CAD FILE.  
\_\_\_\_\_  
\_\_\_\_\_

11. Forms submitted by:

Name: MARK TROWBRIDGE

Userid/location T109EG2

Phone 330-896-5013

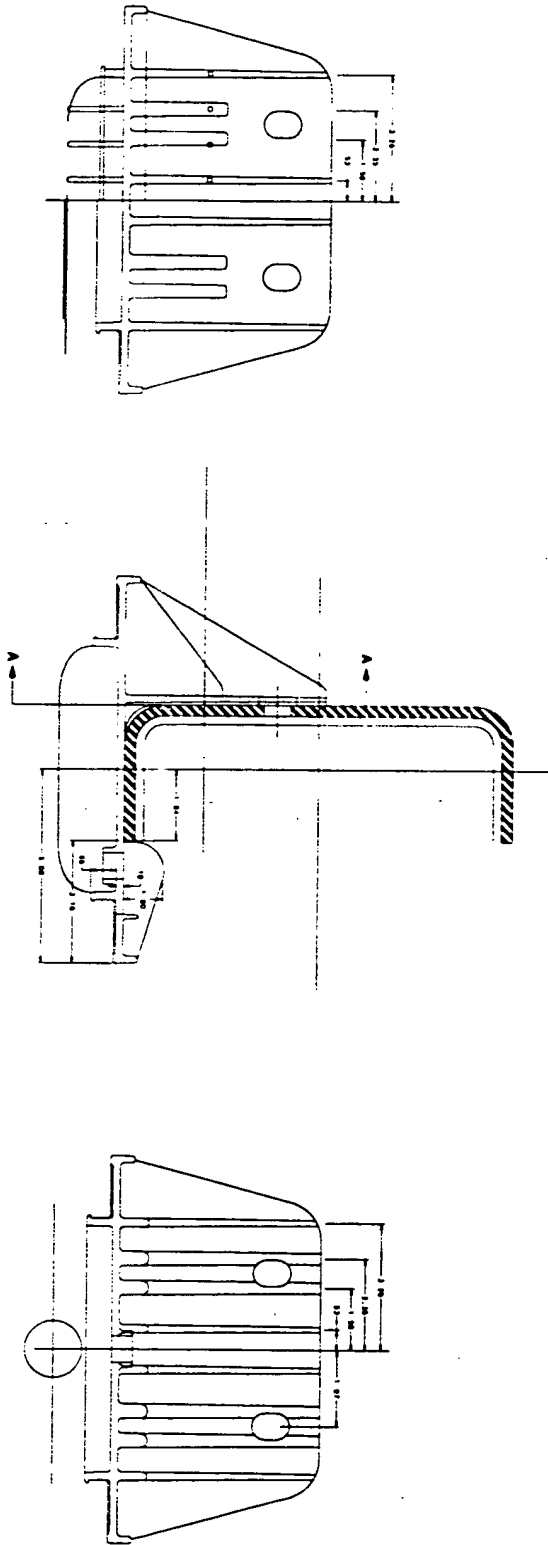
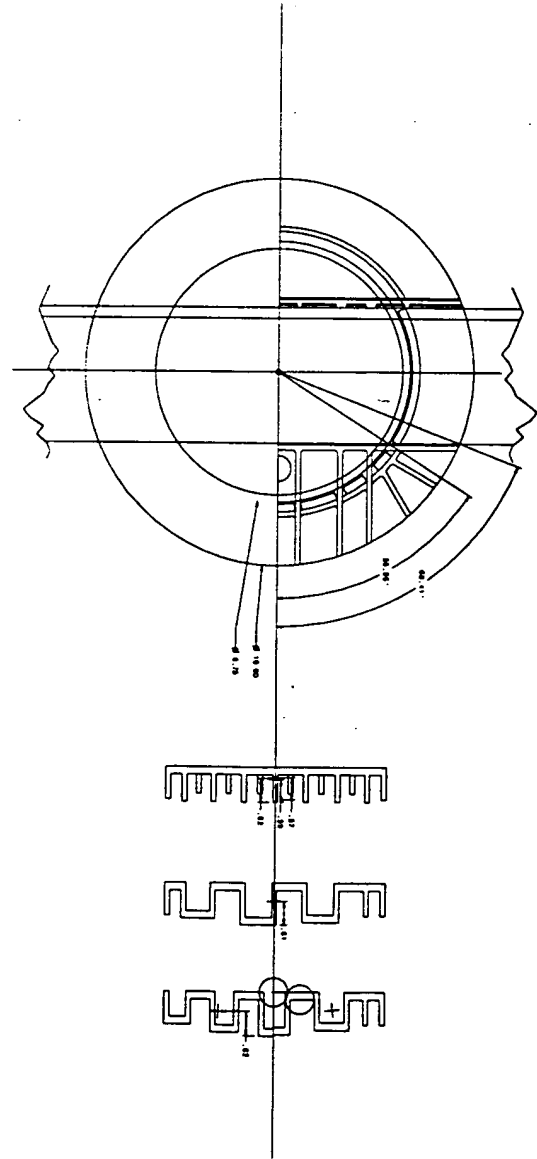
Dept No. 021

330-896-5013

Mark Trowbridge 2/2/98  
Signature Date

Note: Use additional sheets if necessary for any of the above and set forth on each sheet "sheet \_\_\_ of \_\_\_ (fill in appropriate sheet numbers).

Upon completion of the above items, please forward to your Manager who will complete the "Manager's Checklist" portion of this Invention Disclosure and will forward it to the Patent & Trademark Department.



SECTION A-A

SEP 13 1997  
Mark Chambers